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FULL ESTIMATED COST	0.21	0.21

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> s (1)/Mg and (4)/C and (12)/F and (4)/S and (8)/O and (2)/N

145363 (1)/MG  
473069 (4)/C  
26503 (12)/F  
210707 (4)/S  
669009 (8)/O  
5926670 (2)/N

L1 2 (1)/MG AND (4)/C AND (12)/F AND (4)/S AND (8)/O AND (2)/N

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	30.15	30.36

FILE 'CAPLUS' ENTERED AT 11:13:29 ON 31 JAN 2007

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NEWS	11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS	12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS	13	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS	14	DEC 18	CA/CAPLUS patent kind codes updated
NEWS	15	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS	16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	17	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS	18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	19	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS	20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	22	JAN 22	CA/CAPLUS updated with revised CAS roles
NEWS	23	JAN 22	CA/CAPLUS enhanced with patent applications from India
NEWS	24	JAN 29	PHAR reloaded with new search and display fields
NEWS	25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
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=> s l1 and electrolyte

44 L1

254815 ELECTROLYTE

L2 19 L1 AND ELECTROLYTE

=> d l2 1-19 ibib

L2 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:813295 CAPLUS

DOCUMENT NUMBER: 144:332096

TITLE: Conductance behavior of polymeric ion-gel containing magnesium salt

AUTHOR(S): Morita, Masayuki; Shirai, Takahiro; Egashira, Minato; Yoshimoto, Nobuko

CORPORATE SOURCE: Department of Applied Chemistry and Chemical Engineering, Faculty of Engineering, Yamaguchi University, Ube, 755-8611, Japan

SOURCE: Electrochemistry (Tokyo, Japan) (2005), 73(8), 579-581  
CODEN: EECTFA; ISSN: 1344-3542

PUBLISHER: Electrochemical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:521398 CAPLUS

DOCUMENT NUMBER: 143:214242

TITLE: A novel polymeric gel electrolyte systems containing magnesium salt with ionic liquid

AUTHOR(S): Yoshimoto, Nobuko; Shirai, Takahiro; Morita, Masayuki

CORPORATE SOURCE: Department of Applied Chemistry and Chemical Engineering, Faculty of Engineering, Yamaguchi University, Ube, 755-8611, Japan

SOURCE: Electrochimica Acta (2005), 50(19), 3866-3871  
CODEN: ELCAAV; ISSN: 0013-4686

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:344652 CAPLUS

DOCUMENT NUMBER: 142:395086

TITLE: Secondary nonaqueous electrolyte battery

INVENTOR(S): Dojo, Kazunori; Itaya, Shoji; Koga, Hideyuki; Fujimoto, Masahisa

PATENT ASSIGNEE(S): Sanyo Electric Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005108520	A	20050421	JP 2003-337884	20030929
PRIORITY APPLN. INFO.:			JP 2003-337884	20030929

L2 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:1130231 CAPLUS  
DOCUMENT NUMBER: 142:414305  
TITLE: Ionic conductance behavior of polymeric gel electrolyte containing ionic liquid mixed with magnesium salt  
AUTHOR(S): Morita, Masayuki; Shirai, Takahiro; Yoshimoto, Nobuko; Ishikawa, Masashi  
CORPORATE SOURCE: Department of Applied Chemistry and Chemical Engineering, Faculty of Engineering, Yamaguchi University, Ube, 755-8611, Japan  
SOURCE: Journal of Power Sources (2005), 139(1-2), 351-355  
CODEN: JPSODZ; ISSN: 0378-7753  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:993801 CAPLUS  
DOCUMENT NUMBER: 141:426261  
TITLE: Nonaqueous electrolyte  
INVENTOR(S): Dojo, Kazunori; Koga, Hideyuki; Itaya, Shoji; Fujimoto, Masahisa  
PATENT ASSIGNEE(S): Sanyo Electric Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004327326	A	20041118	JP 2003-122459	20030425
PRIORITY APPLN. INFO.:			JP 2003-122459	20030425

L2 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:876919 CAPLUS  
DOCUMENT NUMBER: 141:368362  
TITLE: Electrolyte and secondary battery which uses the electrolyte  
INVENTOR(S): Miyaki, Yukio; Takada, Tomoo; Kawase, Kenichi; Iijima, Yukiko  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004296315	A	20041021	JP 2003-88544	20030327

PRIORITY APPLN. INFO.:

JP 2003-88544

20030327

L2 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:802389 CAPLUS

DOCUMENT NUMBER: 141:280430

TITLE: Cathode active material for nonaqueous electrolyte secondary battery

INVENTOR(S): Inoue, Takao; Fujimoto, Masahisa; Itaya, Masaharu

PATENT ASSIGNEE(S): Sanyo Electric Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004191628	A1	20040930	US 2004-801655	20040317
JP 2004288579	A	20041014	JP 2003-82305	20030325
KR 2004084761	A	20041006	KR 2004-19959	20040324
CN 1532967	A	20040929	CN 2004-10032263	20040325

PRIORITY APPLN. INFO.:

JP 2003-82305

A 20030325

L2 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:782114 CAPLUS

DOCUMENT NUMBER: 141:298684

TITLE: Nonaqueous-electrolyte battery with magnesium-based anode

INVENTOR(S): Koga, Hideyuki; Dojo, Kazunori; Itaya, Shoji; Fujimoto, Masahisa

PATENT ASSIGNEE(S): Sanyo Electric Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004265676	A	20040924	JP 2003-53548	20030228

PRIORITY APPLN. INFO.:

JP 2003-53548

20030228

L2 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:779292 CAPLUS

DOCUMENT NUMBER: 141:298678

TITLE: Nonaqueous-electrolyte battery with magnesium-based anode and sulfur cathode

INVENTOR(S): Koga, Hideyuki; Dojo, Kazunori; Itaya, Shoji; Fujimoto, Masahisa; Miyake, Masahide

PATENT ASSIGNEE(S): Sanyo Electric Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004265675	A	20040924	JP 2003-53547	20030228

PRIORITY APPLN. INFO.:

JP 2003-53547

20030228

L2 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:570455 CAPLUS  
DOCUMENT NUMBER: 141:91879  
TITLE: Method of preparation of electrolyte for  
nonaqueous battery  
INVENTOR(S): Itaya, Masaharu; Miyake, Masahide; Fujimoto, Masahisa;  
Koga, Hideyuki; Donoue, Kazunori  
PATENT ASSIGNEE(S): Japan  
SOURCE: U.S. Pat. Appl. Publ., 7 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004137324	A1	20040715	US 2003-743746	20031224
JP 2004213991	A	20040729	JP 2002-381184	20021227
JP 2004265677	A	20040924	JP 2003-53549	20030228
PRIORITY APPLN. INFO.:			JP 2002-381184	A 20021227
			JP 2003-53549	A 20030228

L2 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:392764 CAPLUS  
DOCUMENT NUMBER: 140:393380  
TITLE: Method of fabrication of rechargeable electrochemical  
cell  
INVENTOR(S): Chung, Sai-Cheong; Nakayama, Yuri; Noda, Kazuhiro;  
Hatazawa, Tsuyonobu  
PATENT ASSIGNEE(S): Sony Corporation, Japan  
SOURCE: PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004040675	A2	20040513	WO 2003-JP13789	20031028
WO 2004040675	A3	20041125		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003274763	A1	20040525	AU 2003-274763	20031028
CN 1708874	A	20051214	CN 2003-80102154	20031028
JP 2006505109	T	20060209	JP 2004-548055	20031028
US 2006003229	A1	20060105	US 2005-532947	20050427
PRIORITY APPLN. INFO.:			US 2002-421949P	P 20021029
			WO 2003-JP13789	W 20031028

L2 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:767287 CAPLUS  
DOCUMENT NUMBER: 139:396366  
TITLE: Interaction between the Lewis Acid Group of a Borate  
Ester and Various Anion Species in a Polymer

AUTHOR(S) : Electrolyte Containing Mg Salt  
Saito, Morihiro; Ikuta, Hiromasa; Uchimoto, Yoshiharu;  
Wakihara, Masataka; Yokoyama, Shoichi; Yabe, Takeshi;  
Yamamoto, Masahiro  
CORPORATE SOURCE: Department of Applied Chemistry, Graduate School of  
Science and Engineering, Tokyo Institute of  
Technology, Meguro, Tokyo, 152-8552, Japan  
SOURCE: Journal of Physical Chemistry B (2003), 107(42),  
11608-11614  
CODEN: JPCBFK; ISSN: 1520-6106  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:476026 CAPLUS  
DOCUMENT NUMBER: 139:263222  
TITLE: Rechargeable magnesium batteries with polymeric gel  
electrolytes containing magnesium salts  
AUTHOR(S) : Yoshimoto, Nobuko; Yakushiji, Shin; Ishikawa, Masashi;  
Morita, Masayuki  
CORPORATE SOURCE: Faculty of Engineering, Department of Applied  
Chemistry and Chemical Engineering, Yamaguchi  
University, Ube, 755-8611, Japan  
SOURCE: Electrochimica Acta (2003), 48(14-16), 2317-2322  
CODEN: ELCAAV; ISSN: 0013-4686  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2002:936892 CAPLUS  
DOCUMENT NUMBER: 138:257747  
TITLE: Ionic conductance behavior of polymeric electrolytes  
containing magnesium salts and their application to  
rechargeable batteries  
AUTHOR(S) : Yoshimoto, Nobuko; Yakushiji, Shin; Ishikawa, Masashi;  
Morita, Masayuki  
CORPORATE SOURCE: Department of Applied Chemistry and Chemical  
Engineering, Yamaguchi University, Ube, 755-8611,  
Japan  
SOURCE: Solid State Ionics (2002), 152-153, 259-266  
CODEN: SSIOD3; ISSN: 0167-2738  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2001:761515 CAPLUS  
DOCUMENT NUMBER: 136:105032  
TITLE: Rechargeable magnesium batteries using a novel  
polymeric solid electrolyte  
AUTHOR(S) : Morita, Masayuki; Yoshimoto, Nobuko; Yakushiji, Shin;  
Ishikawa, Masashi  
CORPORATE SOURCE: Department of Applied Chemistry and Chemical  
Engineering, Faculty of Engineering, Yamaguchi  
University, Ube, 755-8611, Japan  
SOURCE: Electrochemical and Solid-State Letters (2001), 4(11),

A177-A179  
CODEN: ESLEF6; ISSN: 1099-0062  
PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2001:88883 CAPLUS  
DOCUMENT NUMBER: 134:327161  
TITLE: Ionic conductance of polymeric electrolytes consisting  
of magnesium salts dissolved in cross-linked polymer  
matrix with linear polyether  
AUTHOR(S): Yoshimoto, Nobuko; Tomonaga, Yoichi; Ishikawa,  
Masashi; Morita, Masayuki  
CORPORATE SOURCE: Faculty of Engineering, Department of Applied  
Chemistry and Chemical Engineering, Yamaguchi  
University, Ube, 755-8611, Japan  
SOURCE: Electrochimica Acta (2001), 46(8), 1195-1200  
CODEN: ELCAAV; ISSN: 0013-4686  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1999:619190 CAPLUS  
DOCUMENT NUMBER: 132:143502  
TITLE: Electrochemical behavior of magnesium in organic  
electrolyte solutions  
AUTHOR(S): Yoshimoto, Nobuko; Ishikawa, Masashi; Morita, Masayuki  
CORPORATE SOURCE: Fac. Eng., Yamaguchi Univ., Ube, 755-8611, Japan  
SOURCE: Hyomen Gijutsu (1999), 50(9), 839-840  
CODEN: HYGIEX; ISSN: 0915-1869  
PUBLISHER: Hyomen Gijutsu Kyokai  
DOCUMENT TYPE: Journal  
LANGUAGE: Japanese

L2 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1998:503394 CAPLUS  
DOCUMENT NUMBER: 129:217087  
TITLE: Chain Mobility and Cation Coordination in the Polymer  
Electrolytes M[N(CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>]2PEOn with M = Mg, Ca, Sr,  
and Ba  
AUTHOR(S): Lauenstein, Asa; Tegenfeldt, Joergen  
CORPORATE SOURCE: The Angstroem Laboratory Inorganic Chemistry, Uppsala  
University, Uppsala, SE-751 21, Swed.  
SOURCE: Journal of Physical Chemistry B (1998), 102(35),  
6702-6709  
CODEN: JPCBFK; ISSN: 1089-5647  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1991:184787 CAPLUS  
DOCUMENT NUMBER: 114:184787  
TITLE: Preparation of sulfonyl imides for solid solutions for  
primary or secondary generators  
INVENTOR(S): Armand, Michel



PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique, Fr.;  
 Hydro-Quebec  
 SOURCE: PCT Int. Appl., 15 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9011999	A1	19901018	WO 1990-FR240	19900405
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
FR 2645533	A1	19901012	FR 1989-4504	19890406
FR 2645533	B1	19910712		
CA 2030809	A1	19901007	CA 1990-2030809	19900405
EP 419647	A1	19910403	EP 1990-907110	19900405
EP 419647	B1	19930901		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
JP 04501118	T	19920227	JP 1990-506618	19900405
AT 93844	T	19930915	AT 1990-907110	19900405
ES 2044587	T3	19940101	ES 1990-907110	19900405
US 5072040	A	19911210	US 1990-613642	19901203
PRIORITY APPLN. INFO.:			FR 1989-4504	A 19890406
			EP 1990-907110	A 19900405
			WO 1990-FR240	W 19900405
OTHER SOURCE(S):			MARPAT 114:184787	

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